



Time Path Path Number of Estimated Date Cocation Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

MINNESOTA, Central and South Central

Kanabec County					
Countywide	05	1400CST 1500CST	0	0	Heavy Rain
		ng of water was reported on Highway 47 three n of the county.	miles north	n of Ogilvie, and on Highway	70 and County Road 2 in the southern
Kanabec County 6 S Mora	05	1410CST	0	0	Hail(0.75)
Kanabec County					
6 S Mora	05 A pow	1410CST wer line was downed onto Highway 70. The time	0 ne was estin	0 mated.	Thunderstorm Wind (EG50)
Lac Qui Parle County 4 NW Boyd to Boyd	05	1450CST 1500CST	0	0	Hail(0.75)
Chisago County 1 W Harris	05 A han	1600CST dful of trees were downed. The time was estin	0 nated.	0	Thunderstorm Wind (EG52)
Chisago County North Branch	05 A fun	1600CST nel cloud was reported by law enforcement.	0	0	Funnel Cloud
Chisago County North Branch	05 A doz	1600CST ten trees were downed throughout the city.	0	0	Thunderstorm Wind (EG52)
Swift County					
Appleton	07	2240CST	0	0	Hail(0.75)
Chippewa County Clara City	07 Large	2317CST branches were downed.	0	0	Thunderstorm Wind (EG50)
Swift County					
Countywide	07 Nicke	2330CST l sized hail fell across the eastern portion of the	0 county.	0	Hail(0.88)
Stearns County					
Georgeville	07 A 69 l	2342CST MPH gust was recorded by a MNDOT automat	0 red weather	o sensor.	Thunderstorm Wind (MG60)
Kandiyohi County 5 N Spicer	07 Large	2350CST branches were downed.	0	0	Thunderstorm Wind (EG50)
Kandiyohi County Raymond	08 A tree	0000CST was blown down.	0	0	Thunderstorm Wind (EG50)
Meeker County 6 S Litchfield	08	0008CST	0	0	Hail(0.75)
Meeker County 5 SW Watkins	08 Nicke	0009CST l sized hail fell near Clear Lake.	0	0	Hail(0.88)
Stearns County Kimball	08	0018CST	0	0	Hail(0.75)
Meeker County Watkins	08	0019CST	0	0	Hail(0.75)





June 2004 Estimated
Damage
erty <u>Cro</u> Time Local/ Standar Path Length (Miles) Path Width (Yards) Number of Persons Killed Injured

MINNESOTA, Cent	ral and S	outh Central			
Wright County					
Countywide	08	0020CST 0040CST	0	0	Thunderstorm Wind (MG56)
	South Camp on the	reds of trees and power lines were downed y. The hardest hit areas included the commun Haven. Significant tree damage was also re Friendship, and Lake Maria State Park. High	ities of Ar eported at nway 24 no I was reco	nnandale, Co Clearwater l ear Clearwat rded in Map	ildings were damaged across the northwest portion of the orinna Township, Maple Lake, St. Michael, Clearwater, and Lake, Pleasant Lake, Lake Sylvia, Schroeder County Park, ter Lake was blocked by downed trees, and boats and docks ble Lake at 1:35 AM CDT. A gust of 52 MPH was recorded CDT.
Meeker County Countywide	Lake		ed trees a		Thunderstorm Wind (EG55) s in the Dassel, Darwin, Knapp, and Lake Jennie areas. The nes which damaged several vehicles and structures. High
Sherburne County Zimmerman	08 Quart	0052CST er to golf ball sized hail fell.	0	0	Hail(1.75)
Kandiyohi County		C			
4 W Atwater	08 Dime	0153CST to nickel sized hail fell near Big Kandi Lake.	0	0	Hail(0.88)
Stearns County Albany	08	0630CST	0	0	Hail(0.75)
Blue Earth County 4 SW Mankato	08	2000CST	0	0	Hail(1.00)
Scott County Countywide	08 09 A tota	2200CST 0400CST al of 5.4 inches of rain was recorded at Belle F	0 Plaine.	0	Heavy Rain
Steele County					
Countywide	08 09 An es	2200CST 0400CST timated 3 to 5 inches of rain fell countywide.	0 A total of	0 3.5 inches w	Heavy Rain was reported in Owatonna
Watonwan County					
Countywide	08 09 A tota	2200CST 0400CST al of 3.7 inches of rain was reported in Sleepy	0 Eye.	0	Heavy Rain
Blue Earth County			•		
Countywide	09	0200CST 0600CST	0	0	Flash Flood
	Sever	· · ·	ig areas w	ere flooded	by high water and muddy debris after up to 6.5 inches of
Nicollet County					
Countywide	09	0200CST 0600CST	0	0	85K Flash Flood
	Carran		mlroto omd	I Ct Doton v	ware deluged by mudelides and ruching water after up to 6

Several roads, including Highway 169 between Mankato and St. Peter, were deluged by mudslides and rushing water after up to 6 inches of rain fell. Numerous basements and low lying areas were also flooded.





Time Path Path Number of Estimated June 2004

Local/ Length Width Persons Damage

Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

MINNESOTA, Central and South Central

MNZ075>076-083>084

Nicollet - Le Sueur - Blue Earth - Waseca

99 0315CST 0 0 Flood 1100CST

Water remained high along waterways, low lying areas, and roads through the morning of the 9th.

Torrential downpours fell from a line of thunderstorms that trained over south central Minnesota between the evening of the 8th and the pre-dawn hours of the 9th. A total of 3.5 to 6.5 inches of rain in 8 hours caused significant flooding in Blue Earth and Nicollet counties and minor flooding in Le Sueur and Waseca counties. An estimated 5 percent of corn and soybean crops were lost to flooding across Blue Earth and Nicollet counties during this event.

In Blue Earth County, rainfall totals included 7.05 inches in Lime Township just north of Mankato, 6.51 inches at Mankato Municipal Airport, 6.24 inches in Mankato just west of MSU, 5.7 inches five miles southwest of Lake Crystal, and 4.59 inches at South Central Technical College in Mankato. Area storm drains and culverts were unable to keep up with the deluge of rain, especially in the Mankato, Madison Lake, and Lake Crystal areas. Water backed up into retaining ponds, fields, numerous basements, roads, waterways and other low lying areas. Third Avenue in Lime Township just north of Mankato lost 30 feet of roadway after a large culvert was washed out. Saturated soil led to a mudslide on Warren Street near MSU. A retention pond at Country Club Estates in Mankato overflowed into nearby homes with walkout basements. Flooding was also reported near the hospital in hilltop Mankato.

In Nicollet County, 2.5 inches was recorded in St. Peter. A portion of a 50-foot-tall hillside gave way along the southbound lanes of Highway 169 between Mankato and St. Peter around 3 AM on the 9th. This caused a foot of mud and downed vegetation to pour across all 4 lanes of the highway. The northbound side of the road remained closed through Noon on the 9th but the fear of more mudslides kept the southbound side of the highway closed through the 10th. In addition, a large mudslide which included trees and vegetation from a steep hillside occurred along Lake Street in North Mankato on the 10th. A retention pond near Dakota Meadows Middle School overflowed onto Howard Drive in North Mankato. Significant flooding was also reported in hilltop North Mankato and Center Street and McKinley Avenue in lower North Mankato. Two small bridges south of St. Peter were damaged by swiftly moving water.

In Waseca County, 2.46 inches of rain was reported in Waseca. An estimated 5 inches of rain fell over the Janesville area. Up to 80 basements were flooded and several lawns and streets were covered by water across town. Janesville's city park and golf course were also under water. In Le Sueur County, 4.7 inches was recorded at New Prague.

MNZ085 Steele

10 0000CST 0 0 Flood

Heavy rainfall across the Straight River basin upstream of Owatonna on the 9th caused high water to flow through much of Steele County between the 10th and the 12th. Moderate flooding along the Straight River led to several road closures across the county including County Road 18 and 22nd Avenue Southwest. In addition, 20 basements were flooded in Owatonna, mainly in the Crossroads development. Two families were displaced by flood damage and were sheltered by the Red Cross.

Redwood County					
Vesta	11	1350CST	0	0	Hail(0.88)
Yellow Medicine County					
5 S Echo	11	1400CST	0	0	Hail(0.75)



4 WNW Easton to 2 N Easton

National Weather Service Storm Data and Unusual Weather Phenomena



Tornado (F0)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed		Estima Dam Property	ated age Crops	June 2004 Character of Storm
MINNESOTA, Centra	al and S	outh Central							
Redwood County 15 W Redwood Falls	11	1425CST			0	0			Hail(0.75)
Renville County 7 S Olivia	11 A tree	1430CST was downed onto	Highway 71.		0	0			Thunderstorm Wind (EG50)
Martin County 2 SW East Chain	11	1520CST			0	0			Hail(0.75)
Faribault County Blue Earth	11	1535CST			0	0			Hail(0.75)
Mcleod County Brownton	11 Trees	1545CST were downed.			0	0			Thunderstorm Wind (EG50)
Faribault County									



This picture was taken looking south at the FO tornado as it passed a few miles north of Easton, Minnesota. (Photo by Michael Terhurne; courtesy of the Minnesota Lake Tribune)

A tornado touched down near the intersection of 200th Street and 430th Avenue about 4 miles west northwest of Easton. The tornado was estimated to be about 50 yards wide and F0 strength. It traveled east along on the ground for 5 miles until it reached near the intersection of 487th Avenue and 210th Street, about 2 miles north of Easton. Along its rural path, crops and trees were damaged and a shed was downed.

Faribault County					
1 NE Pilot Grove	11	1548CST	0	0	Funnel Cloud
	Severa	al citizens called 911 to report a funnel cloud.			
Blue Earth County					
Mapleton	11	1602CST	0	0	Hail(1.00)
Blue Earth County					
2 S Pemberton	11	1613CST	0	0	Funnel Cloud
	A fun				





June 2004 Time Local/ Path Length Path Number of Estimated Width Persons Damage MINNESOTA, Central and South Central Waseca County 5 NW Waseca 11 1620CST 0 0 Thunderstorm Wind (EG52) Small buildings sustained roof damage and some trees were downed in Section 33 of Iosco Township. **Blue Earth County** 1623CST **Pemberton** 11 Hail(0.75) Waseca County Waseca 11 1625CST Thunderstorm Wind (EG52) Trees up to one foot in diameter were downed. One felled tree damaged a home. A temporary greenhouse was also damaged. Wright County Buffalo 11 1625CST Thunderstorm Wind (EG50) Large branches were downed and a railroad crossing arm was damaged. A wind gust of 46 MPH was measured. **Freeborn County** 3 NW Freeborn to 5 NNE Freeborn 11 50 Tornado (F1) A tornado touched just southwest of the intersection of Highway 33 and Highway 6 about 3 miles northwest of Freeborn. It moved northeast on the ground for 4 miles before lifting just east of Highway 10 about 5 miles north northeast of Freeborn. The tornado caused damage to a number of farm buildings along its path. On 632nd and 640th avenues, trees were downed. On 655th Avenue, 3 foot diameter trees were downed and a house sustained minor damage. On 660th Avenue, large trees were downed, power poles were tilted, three grain bins were damaged, and minor damage was reported to buildings. **Wright County** Buffalo 11 1626CST Hail(0.75) 0 Waseca County 2 W New Richland 1631CST **Funnel Cloud** 11 HAM Radio operators relayed a spotter report of a funnel cloud halfway down to the ground. Waseca County 2 NW New Richland 1632CST Hail(0.88) 11 Freeborn County 1 S Hartland 1634CST Funnel Cloud A sheriff's deputy spotted a funnel cloud at the intersection of Highway 31 and Highway 13. Freeborn County 3 E Hartland 1640CST 0.1 25 0 Tornado (F0) A tornado briefly touched down at a farm where it was seen picking up debris. Waseca County 1 N Otisco 11 1640CST Hail(0.75) Dime sized hail was reported at the intersection of 290th Avenue and County Road 23. Freeborn County Bath **Funnel Cloud** A funnel cloud was relayed by HAM radio operators about 5 miles southwest of Ellendale. Freeborn County 3 NW Clarks Grove 11 1645CST O 0 Hail(0.75) Freeborn County 3 NW Clarks Grove 1645CST O 0 Thunderstorm Wind (MG52) 11

A 60 MPH wind gust was measured by a HAM radio operator at the intersection of county roads 20 and 31.





June 2004 Path Length (Miles) Time Local/ Path Width Number of Estimated Persons Damage MINNESOTA, Central and South Central **Steele County Funnel Cloud** Ellendale 11 1647CST 0 0 A funnel cloud was relayed by HAM Radio operators near Ellendale Freeborn County 1 NNE Geneva 1650CST 0 Thunderstorm Wind (EG52) 11 Trees were downed at a farm on 795th Avenue. Freeborn County 1655CST 4 SE Geneva 11 Thunderstorm Wind (EG55) A farm off Route 28 sustained significant damage. A storage bin was blown onto a field. Windows were blown out of a hog barn. A farmhouse lost shingles and trees on the property were downed. **Steele County** 2 S Bixby 11 1705CST 0 0 Hail(0.75) **Hennepin County Bloomington** 11 1714CST Hail(0.75) **Hennepin County** Thunderstorm Wind (EG50) **Bloomington** 11 1714CST 0 0 Large branches were downed. **Ramsey County** Maplewood 1735CST $\mathbf{0}$ Thunderstorm Wind (EG50) A tree was blown down along Beam Avenue. **Washington County** Lake Elmo 11 1745CST Hail(0.75) 0 0 Waseca County 1 W Waseca 1743CST 0 0 Hail(0.75) 12 Lac Qui Parle County S ter with little if any Y

5 S Louisburg	12	1935CST			0	0	Hail(1.00)
Swift County Appleton	12	1948CST			0	0	Hail(0.75)
Yellow Medicine County 1 W Porter	12	1950CST 1951CST	0.1	25	0	0	Tornado (F0)
		ado crossed into Yellow re reported. The time wa			Lincolr	County just	west of Porter. It dissipated shortly after
Yellow Medicine County 4 SW Canby to Canby	12	1955CST 2007CST			0	0	Hail(1.00)
Hennepin County Brooklyn Park	12	2002CST			0	0	Hail(1.00)
Yellow Medicine County 1 NW Porter	12	2020CST			0	0	Hail(1.50)
Anoka County Ham Lake	12	2022CST			0	0	Hail(0.75)
Anoka County Blaine	12 Quarte	2023CST er sized hail was reporte	d near the i	ntersection o	0 of Radiss	0 son and Bunk	Hail(1.00) er Lake roads.
Lac Qui Parle County 1 SE Louisburg	12 Field o	2030CST crops were destroyed by	wind drive	en hail.	0	0	Hail(1.00)





June 2004 Time Local/ Path Length Path Width Number of Estimated Persons Damage MINNESOTA, Central and South Central Lac Qui Parle County 1 SE Louisburg 12 2030CST 0 0 Thunderstorm Wind (EG60) Two grain bins were damaged. A shed and a tree were downed. Kandivohi County **Blomkest** 15 2130CST 0 0 Hail(0.75) **Redwood County** 15 Walnut Grove 2200CST 0 0 Hail(1.00) **Stearns County** 1309CST Hail(0.75) 6 SW Melrose 23 0 Penny sized hail fell between Melrose and Belgrade. **Pope County** Thunderstorm Wind (MG51) 9 S Starbuck 23 1323CST A MNDOT automated wind sensor recorded a gust of 59 MPH. **Meeker County** 1420CST 0 0 Thunderstorm Wind (EG50) Litchfield A tree was downed. **Stearns County** 1420CST Hail(0.75) Kimball Penny sized hail fell 1/2 mile south of Highway 15 near Delwood Road. **Mcleod County** Hutchinson 23 1440CST 0 Thunderstorm Wind (EG52) A few power lines were downed. The time was estimated. **Ramsey County** 1520CST Hail(0.75) Vadnais Hgts 23 0 **Scott County Belle Plaine** 23 Thunderstorm Wind (MG53) 1523CST A MNDOT automated wind sensor recorded a gust of 61 MPH. **Dakota County** Eagan 23 1530CST Thunderstorm Wind (EG52) A tree was snapped. The time was estimated. **Scott County** 1538CST Thunderstorm Wind (MG63) **New Prague** 23 A MNDOT automated wind sensor recorded a gust of 73 MPH. **Rice County** Northfield 1600CST 0 Thunderstorm Wind (EG52) A number of trees were downed. **Goodhue County** 1604CST 1610CST Cannon Falls 10K Thunderstorm Wind (EG55) 23 Several trees were downed. The roof was ripped off a building in an industrial park north of the city. **Goodhue County** Dennison 1605CST 0 Thunderstorm Wind (EG52) Trees were downed **Dakota County** Thunderstorm Wind (EG50) 2 N Northfield 1606CST 0 A pole shed was damaged. **Goodhue County Red Wing** Thunderstorm Wind (MG59)

The Corps of Engineers wind sensor at Lock and Dam #3 recorded a gust of 68 MPH. Trees were downed.



Number of

Estimated



June 2004

Time Local/ Path Length Path Width Persons Damage MINNESOTA, Central and South Central **Goodhue County Cannon Falls** 1613CST 0 0 Thunderstorm Wind (MG54) A MNDOT automated wind sensor recorded a gust of 62 MPH. Rice County 4 W Faribault 23 1620CST 0 0 Thunderstorm Wind (EG52) A 4-foot diameter tree was downed onto a cabin. **Redwood County** Lucan 23 1800CST 0 0 Hail(0.88) **Meeker County** 3 S Cedar Mills 30 1340CST 0 Hail(0.88) **Renville County** Thunderstorm Wind (EG50) 3 NE Lakeside 30 1345CST 0 0 Tree tops were snapped. **Mcleod County** 1400CST Thunderstorm Wind (EG65) 30 4 S Hutchinson One machine shed was destroyed and another was heavily damaged on a farm along Highway 15. A Quonset hut was also shifted off its foundation. Six power poles along Highway 15 near the farm were downed. **Mcleod County** 5 S Hutchinson 30 1405CST Hail(0.88) **Mcleod County** 1 SE Hutchinson 1405CST Thunderstorm Wind (EG52) Two trees were downed onto York Road east of Underwood Avenue **Mcleod County** 1407CST Thunderstorm Wind (EG55) Hutchinson 30 O A construction trailer was flipped on the southwest side of town. Two people inside the trailer were injured. Trees were downed in the vicinity. Mcleod County 30 1410CST 4 NE Stewart to 3 NNE Brownton 0 0 Hail(1.00) Numerous corn and bean crops were shredded by hail. Some of the worst damage was found in a two to three mile area east of Lake **Mcleod County** Biscay 30 1418CST 0 0 Hail(0.75) **Mcleod County** 1 N Brownton 30 1418CST Hail(1.00) **Mcleod County** 1418CST 2 N Brownton 30 0 Thunderstorm Wind (EG52) A cluster of trees was downed. **Mcleod County** 7 E Brownton 30 1430CST O 0 Hail(0.88) Wright County 3 S Montrose 30 1430CST Hail(0.88) The nickel sized hail stripped leaves and small branches from trees. **Mcleod County** 30 1439CST Hail(0.88) Sumter **Mcleod County** Sumter 30 1439CST 0 0 Thunderstorm Wind (EG52) Large trees were downed.





Time Path Path Width Persons Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

MINNESOTA, Central and South Central

MINITEDOTA, CCIU	ii ana oc	outh Central			
Mcleod County					
Countywide	30	1445CST 1545CST	0	0	Flash Flood
			13. Crops were dama	aged by flood waters near Bro	ownton. Up to 3 inches of rain fell
Sibley County 1 W New Auburn	30	1445CST	0	0	Hail(0.75)
Hennepin County Plymouth	30 Dime	1450CST sized hail fell just northwest of the	0 e intersection of I-394 ar	0 nd Highway 169.	Hail(0.75)
Mcleod County Glencoe	30	1450CST	0	0	Hail(1.00)
Hennepin County Maple Grove	30 Nickel	1515CST I sized hail fell near the intersection	0 on of Bass Lake Road an	0 d Sycamore Lanα.	Hail(0.88)
Hennepin County					
New Hope Hennepin County	30	1515CST	0	0	Hail(0.75)
Crystal Arpt	30	1524CST	0	0	Hail(1.00)
Hennepin County					
Minneapolis	30 Penny	1532CST sized hail fell in northeast Minne.	0 apolis along University	0 Avenue.	Hail(0.75)
Anoka County Fridley	30	1535CST	0	0	Thunderstorm Wind (EG50)
Fildley		tree limbs were downed across po			Thunderstorm wind (EG30)
Ramsey County Arden Hills	30 Large	1535CST tree branches were downed at the	0 intersection of I-694 and	0 1 I-35W.	Thunderstorm Wind (EG50)
Ramsey County Vadnais Hgts	30	1550CST	0	0	Hail(0.75)
WISCONSIN, West					
Barron County Brill	11	1900CST	0	0	Hail(0.75)
St. Croix County Woodville	12	1951CST	0	0	Hail(0.75)
Dunn County Menomonie	12 A tree	2000CST was downed in the northeast port	0 ion of Menomonie and i	0 n rural northern Dunn County.	Thunderstorm Wind (EG50)
Dunn County 1 W Ridgeland	12	2017CST	0	0	Hail(1.75)
Barron County 3 E Prairie Farm	12	2020CST	0	0	Hail(1.75)
Pepin County Durand	23 A 68 N	1635CST MPH wind gust was measured by	0 an automated sensor.	0	Thunderstorm Wind (MG59)
Eau Claire County 6 WSW Foster	23	1653CST	0	0	Hail(0.75)